S P E C I F I C A T I O N TITLE

"A SHANTY AND A SYSTEM AND A METHOD FOR ASSEMBLING THE SAME"

BACKGROUND OF THE INVENTION

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The present invention generally relates to a shanty and a system and a method for assembling the same. More specifically, the present invention relates to a shanty which may be assembled, disassembled and re-assembled by an individual. The shanty may have panels which may provide a roof and walls. The panels may be removably attached and/or fastened to assemble the shanty.

It is generally known when constructing a building, or like structure, to erect a shanty at the construction site. The shanty may have walls, a door and a ceiling and may be in the shape of a room or the like. The shanty may be used, for example, as a meeting place for workers. The shanty may also be used to store a worker's personal items and/or as a changing room. In addition, the shanty may be used to store items such as, for example, drawings, tools, equipment, or other construction-related items.

A typical shanty is constructed from wood or the like. In some cases, the wood may be fire-rated. Known shanties may have different sizes and shapes depending on, for example, a number of workers associated with a construction project, or an amount and/or type of space provided at a construction site for the shanty. A larger-sized shanty may require a greater amount of wood and/or other components, such as, for example, fasteners, fixtures, or other building components. To create the walls, ceiling, door, or other parts of a shanty, the wood must be fastened together. Construction of a shanty, in some cases, may

require up to, for example, thirty or more hours of labor. Thus, construction of a shanty can be a tedious, time-consuming, and labor-intensive task. In addition, the wood, as well as the other materials used to build the shanty, and/or the labor may be expensive, adding to the costs associated with, for example, the construction project.

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After completion of a construction project, the shanty is often discarded. Thus, a construction crew, for example, undertaking different construction projects must erect a new shanty for each project. New materials to construct the shanty must also be acquired.

A need, therefore, exists for a shanty and a system and a method for assembling the same wherein the shanty may be assembled, disassembled and re-assembled using the same components.

SUMMARY OF THE INVENTION

The present invention generally relates to a shanty which may be assembled, disassembled and re-assembled using the same components. The shanty may have a plurality of panels which may be removably fastened to each other to assemble the shanty. A first type of panel may be a wall One or more wall panels may be used to provide panel. walls and a door for the shanty. A second type of panel, namely, a roof panel, may be attached to the wall panel to provide a ceiling for the shanty. The panels may be substantially planar in shape. Moreover, the panels may have a length defined between a first end and a second end wherein a section of each of the panels at the second end is positioned toward the first end in a folded-like manner. The folded section of a first panel may be fastened to the folded section of a second panel to assemble the shanty.

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in an embodiment of the present To this end, invention, a shanty is provided. The shanty has a plurality of walls defining a room having an interior wherein each of the walls has a length defined between a first end and a second end and a width defined between a third end and a fourth end wherein a section of each of the walls at the first end extends into the interior of the The shanty also has a plurality of roof panels defining a ceiling for the room wherein each of the roof panels has a length defined between a first end and a second end and a width defined between a third end and a fourth end wherein a section of each of the roof panels at the first end extends into the interior of the room and further wherein the section of one of the walls extending into the interior is attached to the section of one of the roof panels extending into the interior wherein the plurality of walls and the plurality of roof panels attach to define the room.

In an embodiment, the shanty has a fastener attaching the wall to the roof panel.

In an embodiment, the length of one of the roof panels is equal to twice the width of one of the walls.

In an embodiment, the shanty has a post attached to one of the plurality of roof panels.

In an embodiment, the shanty has a brace attached to one of the plurality of walls and one of the plurality of roof panels.

In an embodiment, a section of each of the plurality of walls at the third end is folded into the interior of the room.

In an embodiment, the shanty has a hole formed within the section of the wall extending into the interior of the room.

In an embodiment, the shanty has a slot formed within the section of the roof panel extending into the interior of the room.

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In an embodiment, the walls are constructed from metal.

In another embodiment of the present invention, a The system has a plurality of wall system is provided. panels defining a room wherein each of the wall panels has a length defined between a first end and a second end and wherein a section of each of the wall panels at the first end extends toward the second end of the wall panel. system also has a roof panel contacting the plurality of wall panels at the first end to provide a ceiling for the room wherein the roof panel has a length defined between a first end and a second end wherein a section of the roof panel at the first end extends toward the second end of the roof panel. Further, the system has a fastener attaching one of the wall panels to the roof panel wherein the section of the wall panel extending toward the second end of the wall panel is attached to the section of the roof panel extending toward the second end of the roof panel.

In an embodiment, the system has a post attached the roof panel.

In an embodiment, the system has a slot formed within the section of the wall panel.

In an embodiment, the system has a slot formed within the section of the roof panel.

In an embodiment, the roof panel is defined by a plurality of removably attached sections.

In an embodiment, the system has a door positioned adjacent to one of the wall panels.

In an embodiment, the system has a handle attached to one of the wall panels.

In an embodiment, the system has a hinge attached to one of the wall panels.

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In an embodiment, the system has a brace attached to one of the plurality of wall panels and the roof panel.

In another embodiment of the present invention, a method is provided for assembling a shanty having an interior. The method comprises the steps of: providing a plurality of walls defining a room having an interior wherein each of the walls has a length defined between a first end and a second end wherein a section of each of the walls at the first end extends into the interior of the room; providing a roof panel defining a ceiling for the room wherein the roof panel has a length defined between a first end and a second end wherein a section of the roof panel at the first end extends into the interior of the room; and fastening one of the plurality of wall panels to one of the plurality of roof panels.

In an embodiment, the method further has the step of attaching a post to the roof panel.

In an embodiment, the method further has the step of attaching a hinge to one of the plurality of wall panels.

It is, therefore, an advantage of the present invention to provide a shanty and a system and a method for assembling the same wherein the shanty may be assembled, disassembled and re-assembled.

Another advantage of the present invention is to provide a shanty and a system and method for assembling the same wherein the shanty is inexpensive to manufacture. A still further advantage of the present invention is to provide a shanty and a system and method for assembling the same wherein the shanty is easy to assemble.

Yet another advantage of the present invention is to provide a shanty and a system and method for assembling the same which may reduce an amount of time required to assemble a shanty.

Another advantage of the present invention is to provide a shanty and a system and method for assembling the same which prevents discarding of materials used to construct the shanty.

A further advantage of the present invention is to provide a shanty and a system and method for assembling the same wherein one or more dimensions of the shanty may be adjusted.

Additional features and advantages of the present invention are described in, and will be apparent from, the detailed description of the presently preferred embodiments and from the drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 illustrates a top plan view of a shanty in an embodiment of the present invention.

Figure 2A is a perspective view of a wall panel of a shanty in an embodiment of the present invention.

Figure 2B is a cross-sectional view of the wall panel taken generally along the line A-A of Figure 2A.

Figure 3A illustrates a perspective view of a roof panel in an embodiment of the present invention.

Figure 3B illustrates a cross-sectional view of the roof panel taken generally along the line B-B of Figure 3B.

Figure 4 illustrates a perspective view of a roof panel in an embodiment of the present invention.

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Figure 5 illustrates a side view of a connection between a wall panel and a roof panel in an embodiment of the present invention.

Figure 6 illustrates a top plan view of a door of a shanty in an embodiment of the present invention.

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Figure 7 illustrates a perspective view of a shanty in an embodiment of the present invention.

DETAILED DESCRIPTION OF THE PRESENTLY PREFERRED EMBODIMENTS

The present invention generally relates to a shanty and a system and method for assembling the same. The shanty may have panels which may be removably fastened to each other to assemble, disassemble and re-assemble the shanty. Each of the panels may have a length defined between a first end and a second end. A section of a panel at a first end may be folded or positioned toward the second end. The folded section of a first panel may be removably fastened to a folded section of a second panel.

Referring now to the figures wherein like numerals refer to like parts, Figure 1 illustrates an overhead view of a shanty 2 in an embodiment of the present invention. The shanty 2 may have a plurality of panels (described in further detail below.) A first type of panel, or wall panel 4, is illustrated in Figures 2A and 2B. panel 4 may be constructed from, for example, a metal, such as, aluminum, steel, or the like. In an embodiment, the wall panel 4 may be constructed from, for example, fiberglass, plastic, or like material. In a preferred embodiment, the wall panel 4 is constructed from aluminum. The wall panel 4 may have a width 6 and a length 8 defined between a first end 10 and a second end 12. The length 8 may be sized to accommodate a height of individuals using the shanty 2 when constructed. The wall panel 4 may be substantially planar in shape and may have a depth 9.

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Figure 2B illustrates a cross-sectional view of the wall panel 4 taken generally along the line A-A. A section 14 of the wall panel 4 at the first end 10 may extend from the first end 10 and may be positioned toward the second end 12 of the wall panel 4. In an embodiment, the section 14 is integrally formed with the wall panel 4. In another embodiment, the section 14 may be attached to the wall panel 4. Likewise, a section 16 of the wall panel 4 at the second end 12 may extend from the second end 12 and may be positioned toward the first end 10. The section 16 may be integrally formed with the wall panel 4 or may be attached to the wall panel 4. A section 17 may extend from a side 19 and may be positioned toward a side 21. Likewise, a section 23 may extend from the side 21 and be positioned toward the side 19. Holes 18 may be provided within the sections 14, 16, 17 and 23. The holes 18 may be sized to receive various fasteners (described in further detail below).

Figures 3A and 3B illustrate a roof panel 20 for the shanty 2. The roof panel 20 may be constructed from a metal, such as, for example, aluminum, steel, or the like and may be substantially planar in shape. In an embodiment, the roof panel 20 may be constructed from, for example, fiberglass, plastic, or like material. The roof panel 20 may have a length 22 defined between a first end 24 and a second end 26. The roof panel 20 may also have a width 28 defined between a first side 30 and a second side 32. Further, the roof panel 20 may have a depth 29. In the embodiment illustrated in Figure 1, the length 22 of the roof panel 20 may be twice as great as the width 6 of

the wall panel 4. In other embodiments, the length 22 of the roof panel 20 may be sized as appropriate based on the width 6 of the wall panel 4. Moreover, the roof panel 20 may have any length 22 or a width 28 to define a size or a shape for the shanty 2.

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Figure 3B illustrates a cross-sectional view of the roof panel 20 taken generally along the line B-B. section 34 of the roof panel 20 at the first end 24 may extend from the first end 24 and may be positioned toward the second end 26 of the roof panel 20. In an embodiment, the section 34 is integrally formed with the roof panel 4. A section 36 of the roof panel 20 at the second end 26 may extend from the second end 26 and may be positioned toward the first end 24. The section 36 may be integrally formed with the roof panel 4 or may be attached to the roof panel A section 37 may extend from the side 30 and may be positioned toward the side 32. Likewise, a section 43 may extend from the side 32 and may be positioned toward the Slots 38 may be provided within the section 34 side 30. and/or the section 36. The slots 38 may be sized to receive the various fasteners described below.

Figure 4 illustrates a center roof panel 40 which may attach to one or more roof panels 20. The center roof panel 40 may have a length 42 and a width 44. In an embodiment, the length 42 may be equal to the width 44. In an embodiment, the length 42 of the center roof panel 40 may be approximately one-half of the length 22 of the roof panel 20. However, in other embodiments, the center roof panel 40 may have any length 42 or width 44 based on a desired size and/or shape of the shanty 2. The center roof panel 40 may have a section 51 which may extend toward a side 53. A section 55 may extend toward a side 57. The

center roof panel 40 may also have a section 59 which may extend toward an end 61. Further, a section 63 may extend toward an end 65. The center roof panel 40 may have slots 46 to enable fastening of the center roof panel 40 to one or more roof panels 20 by, for example, screws, bolts, or the like.

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As illustrated in Figure 1, the center roof panel 40 is surrounded by adjacent roof panels 20. The center roof panel 40 may be supported by a frame 73. A post 50 within the shanty 2 may be connected to the frame 73 and may provide support to the frame 73. The post 50 may extend from the frame 73 to, for example, a floor or ground. The frame 73 may have a section (not shown) which may be shaped to receive the post 50. In an embodiment, the frame 73 and/or the post 50 are rectangular in shape.

Referring now to Figure 5, a side view is provided of the wall panel 4 attached to the roof panel 20. More specifically, the section 14 of the wall panel 4 is fastened to the section 34 of the roof panel 20. A fastener 48, such as, for example, a nut and a bolt, may be inserted into one of the holes 18 of the wall panel 4 as well as one of the slots 38 of the roof panel 20. The section 16 of the wall panel 4 may be fastened to, for example, the floor, the ground, or other surface. Figure 5 also illustrates a shelf 80 which may be attached to the section 14 of the wall panel 4.

Figure 6 illustrates a top plan view of wall panels 4a and 4b which may be adjacent to a door 70. In an embodiment, the door 70 may have a shape similar to a wall panel 4. A hinge 52 may be positioned between the wall panel 4a and the door 70. The hinge 52 may be, for example, a continuous hinge and may contact the wall panel

4a and the door 70 along the length of the wall panel 4a and the door 70. A space 54 may exist between the wall panel 4a and the door 70 to enable insertion of the hinge In addition, a handle 58 may be attached to the door The handle 58 may enable an individual to open or 70. close the door 70. A second handle 60 may be attached to The second handle 60 may have an the wall panel 4b. aperture 62, and the handle 58 may have an aperture 64 wherein the apertures 62, 64 are aligned. As a result, an individual may insert a locking mechanism (not shown) into the apertures 62, 64 to lock the door 70 to the wall panel 4b and prevent access into the shanty 2. A space 66 may exist between the door 70 and the wall panel 4b to enable the handle 58 and the second handle 60 to attach to the door 70 and the wall panel 4b, respectively.

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Figure 7 illustrates a perspective view of the shanty 2 in an assembled state. To assemble the shanty 2, an individual may position any number of wall panels 4 adjacent to one another to define a room-like shape. For example, the individual may position three wall panels 4 adjacent to each other on each side of the shanty 2, as illustrated in Figure 1. The individual may also determine a position of the door 70 adjacent to the wall panels 4. The individual may then mount the post 50 and the frame 73 within an interior created by positioning of the wall panels 4. Next, the individual may attach the center roof panel 40 to the frame 73.

The individual may then attach the roof panels 20 to the wall panels 4. To this end, one of the roof panels 20 may be placed at an end of one of the wall panels 4, adjacent to the end 10. The section 34 of the roof panel 20 may be in contact with the section 14 of the wall panel

4. One or more holes 18 of the wall panel 4 may then be aligned with one or more slots 38 of the roof panel 20. A fastener 48 may be inserted between one of the holes 18 and one of the aligned slots 38 to fasten the wall panel 4 to the roof panel 20.

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The individual may then align one or more of the slots 46 of the center roof panel 40 with one or more of the slots 38 of the roof panel 20. A fastener 48 may be inserted between the slots 38, 46 to fasten the center roof panel 40 to the roof panel 20. A brace 72 may be attached to one of the wall panels 4 and one of the roof panels 20 at each corner 11 of the shanty 2.

The shanty 2 may provide, for example, a meeting room for workers. The shanty 2 may be used to store personal In addition, an overall length or width of the shanty 2 may be defined by adjusting a number of wall panels 4 used to assemble the shanty 2. For example, three wall panels 4 are used on each side of the shanty 2 illustrated in Figure 1. However, an individual may incorporate any number of the wall panels 4 on a side of the shanty 2 to adapt the shanty 2 to desired dimensions. A requisite number of the roof panels 20 may then be used to attach to the wall panels 4 and to cover and/or enclose the shanty 2. The wall panels 4 and/or the roof panels 20 may be constructed from metal; as a result, the shanty 2 may be fire resistant. Moreover, because the wall panels 4 and the roof panels 20 may be removably fastened, the shanty 2 may be assembled, disassembled and re-assembled using, for example, the same wall panels 4 and/or the roof panels 20 and other components used to assemble the shanty 2. Moreover, when re-assembling, the individual may

add/remove the wall panels 4 and/or the roof panels 20 to adjust overall dimensions of the shanty 2.

The holes 18 within the wall panels 4 and/or the slots 38 within the roof panels 20 may enable an individual to fasten, for example, hooks, shelves, or like fixtures within the shanty 2 to provide workers with an area to, for example, store personal items. The shanty 2 may be designed to secure furniture, such as, for example, tables, seats, or like furniture, onto, for example, an inside of the wall panel 4. The furniture may be metal or constructed from the same material as the shanty 2. Likewise, the furniture may be disassembled and reassembled for subsequent use of the shanty 2.

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It should be understood that various changes and modifications to the presently preferred embodiments described herein will be apparent to those skilled in the art. Such changes and modifications may be made without departing from the spirit and scope of the present invention and without diminishing its attendant advantages.